STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: _10/518, 057_

Source: _PCT_

Date Processed by STIC: _01/05/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
   APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
   NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
         http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission
   User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
   Alexandria, VA 22314

Revised 01/24/05

PCT

RAW SEQUENCE LISTING   DATE: 01/05/2006
PATENT APPLICATION: US/10/518,057   TIME: 11:26:42

Input Set : **A:\PCT-JP03-07838seq.txt**
Output Set: **N:\CRF4\01052006\J518057.raw**

```
  3 <110> APPLICANT: TAKARA BIO INC.
  5 <120> TITLE OF INVENTION: Enzyme for digesting sulfated fucan from seacucumber
  7 <130> FILE REFERENCE: 663848
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/518,057
C--> 9 <141> CURRENT FILING DATE: 2004-12-16
  9 <150> PRIOR APPLICATION NUMBER: JP 2002-180490
 10 <151> PRIOR FILING DATE: 2002-06-20
 12 <150> PRIOR APPLICATION NUMBER: JP 2002-239843
 13 <151> PRIOR FILING DATE: 2002-08-20
 15 <160> NUMBER OF SEQ ID NOS: 1
```

Does Not Comply
Corrected Diskette Needed

(pg-1)

ERRORED SEQUENCES

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 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 1521
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Fucoidanobacter marinus SI-0098
 22 <400> SEQUENCE: 1
 23 agagtttgat cctggctcag aatgaacgct ggcggcgtgg ttcagacatg caagtcgaac   60
 24 gggattgtct agttagcttg ctaattagac atgagagtgg cgaacgggtg cgtaacacgt  120
E--> 25 aaagaaccta cccttatgtg ggggatagct caccgaaggg tgaattaata ccgcatgtgg  180
E--> 26 tctctcttca catgaagagt acacnaagc tggggacctt cgggcctggc gcatagggag  240
E--> 27 ggctttgcgg cctatcagct tgttggtgag gtaacggctc accaaggcaa agacnggtag  300
 28 ctggtctgag aagatgatca gccacactgg aacttagaca cggtccagac acctacgggt  360
 29 ggcagcagtt tcgaatcttt cacaatgggc gaaagcctga tggagcaacg ccgcgtgggg  420
 30 gatgaaggcc ttcgggttgt aaaccctgt caccaaggat aaaacgtaat ctattaatac  480
 31 taggttgcct gatgtaactt ggagaggaag gagtggctaa ctctgtgcca gcagccgcgg  540
 32 taatacagag actccaagcg ttattcggat tcactgggcg taaagggagc gcaggcggcc  600
 33 agatgtgtca gaggtgaaat accgcagctt aactgtagaa ctgcctttga aactatctgg  660
 34 ctagagtatc ggagaggtaa gcggaattcc aggtgtagca gtgaaatgcg tagatatctg  720
 35 gaggaacacc aatggcgaag gcagcttact ggacgattac tgacgctcag gctcgaaagc  780
 36 atggggagcg aaagggatta gatacccctg tagtccatgc cgtaaacgtt gttcactagg  840
 37 tatcgggaca ttcgaccgtc tcggtgctca agctaacgcg ataagtgaac cgcctgagga  900
 38 ctacggccgc aaggctaaaa ctcaaaggaa ttgacgggag cctgcacaag cggtggagca  960
 39 tgtggcttaa ttcgatgcaa cgcgaagaac cttacctagg cttgacatgc agtggaccgg 1020
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 45 tctgcaactc gactccatga agttggaatc gctagtaatg gcgcatcagc tatggcgccg 1380
 46 tgaatacgtt cccaggcctt gtacacaccg cccgtcacgt tatggaagcc ggttttgccc 1440
```

Pls Explain
'n' locations
See page
3 for
Error
Explanation.

RAW SEQUENCE LISTING   DATE: 01/05/2006
PATENT APPLICATION: **US/10/518,057**   TIME: 11:26:42

Input Set : **A:\PCT-JP03-07838seq.txt**
Output Set: **N:\CRF4\01052006\J518057.raw**

```
47 gaagtatgtt agctaacccg caagggaggc gatgtcctaa ggtgaggctg gtaactggaa 1500
48 cgaagtcgta acaaggtagc c           1521
```

VARIABLE LOCATION SUMMARY   DATE: 01/05/2006
PATENT APPLICATION: US/10/518,057   TIME: 11:26:43

Input Set : **A:\PCT-JP03-07838seq.txt**
Output Set: **N:\CRF4\01052006\J518057.raw**

Error Explanation

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is **MANDATORY** if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:1; N Pos. 158,206,295

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/518,057**

DATE: 01/05/2006
TIME: 11:26:43

Input Set : **A:\PCT-JP03-07838seq.txt**
Output Set: **N:\CRF4\01052006\J518057.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:25 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:26 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:27 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1